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12. (New) The ceramic heater according to claim 11, wherein said ceramic substrate has  $5 \times 10^{10}$  or less pores which have a diameter of  $0.5 \mu\text{m}$  or more per  $\text{m}^2$  by surface measurement with a microscope.

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#### DISCUSSION OF THE AMENDMENT

Claim 1 has been amended to claim a ceramic heater comprising the recited ceramic substrate, as supported in the specification at page 11, lines 10-19, wherein the ceramic heater also contains a temperature control means, as supported in the specification at page 9, lines 19-20. Claim 1 has further been amended to recite that the recited pore limitation is made --by surface measurement with a microscope--, as supported in the specification page 8, lines 24-33 and page 31, lines 17-28.

New Claims 2-12 have been added. Claim 2 is supported in the specification at page 12, lines 33-35, combined with page 11, lines 15-18. Claim 3 is supported in the specification page 18, lines 10-12. Claim 4 is supported in the specification at page 16, line 11, and Figs. 3 and 4. Claim 5 is supported in the specification at page 28, line 2. Claim 6 is supported in the specification at page 10, line 3, and page 14, line 7. Claim 7 is supported in the specification at page 7, lines 28-29, combined with page 14, line 8. Claim 8 is supported in the specification at page 7, lines 28-29, combined with page 14, line 8, and page 7, lines 17-18. Claim 9 is supported in the specification at page 10, line 19. Claim 10 is supported in the specification at page 30, line 1. Claim 11 is supported in the specification at page 35, lines 21-22. Claim 12 is supported in the specification at page 35, lines 23-24.

No new matter has been added by the above amendment. Claims 1-12 are now pending in the application.